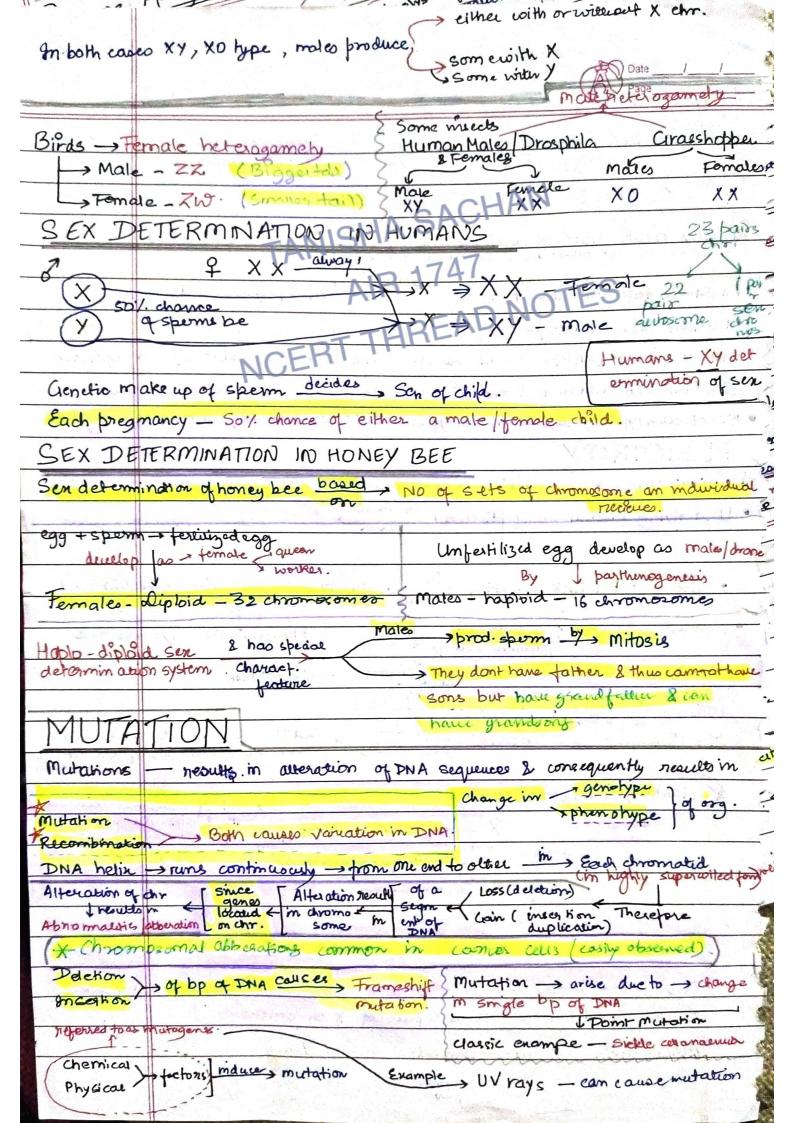
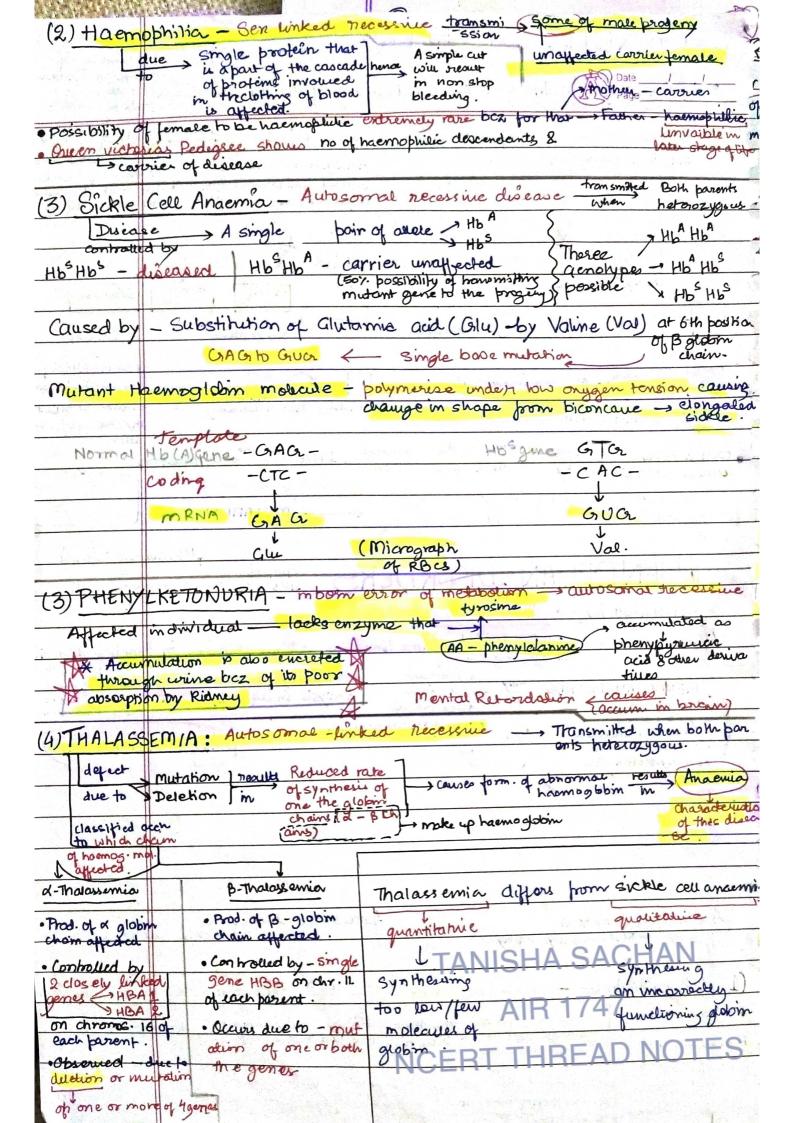
	enetic Maps - used endusivery as Starling foint
9	
	HUMAN GENOME as Sequence of em PROJECT in whole genome
1	DIVICE SOLICE FOR
	OLYGENIC IMHERITANCE
Mm	any traits not so distinct & spread across a gradient.
Su	
	intonce takes into account influence of enciron In a polygenic trait, phenotype report
	man Skin colour / polygenic inheritance i e effect of each allete additive
All	dominant (AABBCC) - Darked & All necessive (oabbcc) -> Lightest
3	dominant allele + 3 recessive allele -, intermediate skin colour.
· No.	of each type of alleles in genotype determines, darkness/ lightness of individual's
PI	LEIOTR OP Y
# Sin	1910 gene -> can enhibit multiple phenotypic enpression -> Pelohopic gene
• Un	m most
	different phenotypes
	16male come multitum
•	Ex -> Phenylketonuria in due to mutation in genes that codes
• Th	Phenolypic expression Phenyl clause by days along
	characterised by
I'Len	tal Retard. Reduction in hair Spin Digment. manifests itself
	SEX DETERMINATIONS.
*	Experiments on - Insect & cytological led to concept of genetic / chromosomal baois of XXX determ
de	Henking (1981) traced specific ructean str. all through spermatogeness.
	The games received
• .	emplain X-body (sperm.me)
	TANISHA SACHAM aemonasone
	X-chromosome minseds.
	AIR 1/4/1 XO type -> XX-femals
	NCERT THREAD NOTES
	XO -> Males - have only 1 x anomosome besides autosomes
ii.	> Fomales - have a pair of X chromosome " ".
	Among males, X chr present > Ychr. = smaller.
£ ¹³	its counter point



GENETIC DISORDET	35	
Management of the control of the con	note 1	The brachise of amalysing inhebban
Pedigree Analysis -> After redi	scovery of menders was 40	traits in human
Control crosses -> pea plant /	The second secon	being began. Study of family
In pedighee analysis, the inheritance	Analysis of traits in , i	tance of particu
ted in family tree over genera	generations of	ar trait brouder
tions.	Pedigree analysis	
Pedigree Strong tool in human		itance of
analysia provideo genetica	to Specific Chror-mally	Disease
-Male Jemole Jensbecitted		
1-Male J-formale J-unspecified	making	
- Affected individuals	- consangumeous	transmitted from
5) - 5 unaffected individuals	(mating b/w relatives)	any change/atten
		ation
feature in organism by other gene	ON Chromoso	However, chang
found to be associated with inheritance of	been MUTATION	occurs occasionly
to be associated with inheritance of	THO CARGO	Grace Straining
MENDELIAN DISORD	FRC Genetic Mend	elian disorder
	1 1/1 / IPHELIC /	
"		mosomal divorder
Determined by - Alteration / Mutata	ion in the single gene."	mosomal divorder
Determined by - Alteration / Mutation / Mutation / Mutation / These disorders are to offspring on	ion in the single gene."	principle of Wherit
Determined by Alteration / Mutata These disorders are to offspring on These disorders are to offspring on The dominant of the Recessive	ion in the single gene." lines apuse have studied in	
Determined by Alteration / Mutate These disorders (tre transmitted Same to offspring on MENDEUAN DISORDERS may Recessive Haemophilia Cystic fierosis	limes above have studied in traced by pedigree analysis in a family.	participle of otheritance. pattern of inheritance. the theor disorders
Determined by Alteration / Mutata These disorders (tre transmitted Same to offspring on MENDELIAN DISORDERS may Racessine Haemophilia be Sex Imked Cystic fishosis Sickle cell ameerica by periograe (X Colour blindness argues are can	limes abuse have studied in traced by pedigree analysis in a tarnily.	principle of Brhesit auce
Determined by Alteration / Mutata These disorders are transmitted Same to offspring on MENDEUAN DISORDERS may radominant Harmophilia be Sex Imred Cystic fierosis Sickle ceu araemia by perigree (X	limes abuse have studied in traced by pedigree analysis in a tarnily.	partiam of mount ance the thear disorders
Determined by Alteration / Mutata These disorders (tre transmitted Sqme to offspring on MENDELIAN DISORDERS may Recessive Haemophilia (ysha fierosia Sickle ceu ameenia By periograe (X Phenylketonuria.	limes abuse have studied in traced by pedigree analysis in a tarnily.	partiam of mount ance the thear disorders
Determined by Alteration / Mutata These disorders (tre transmitted Sqme to offspring on MENDELIAN DISORDERS may Recessive Haemophilia (ysha fierosia Sickle ceu ameenia By periograe (X Phenylketonuria.	limes abuse have studied in traced by pedigree analysis in a tarnily.	partiam of inheritance. If these disorders
Determined by Alteration / Mutata These disorders (tre transmitted Sqme to offspring on MENDELIAN DISORDERS may Recessive Haemophilia (ysha fierosia Sickle ceu ameenia By periograe (X Phenylketonuria.	limes abuse have studied in traced by pedigree analysis in a tarnily.	partiam of inheritance. If these disorders
Determined by Alteration / Mutata These disorders (tre transmitted Sqme to offspring on MENDELIAN DISORDERS may Recessive Haemophilia (ysha fierosia Sickle ceu ameenia By periograe (X Phenylketonuria.	lines abuse have studied in traced by pedigree analysis in a family. Demophilia transmission (transmission) SHASACHANISTES THREAD NOTES	partiam of inheritance. If these disorders
Determined by Alteration / Mutata These disorders (tre bransmitted Sqme to Offspring on MENDELIAN DISORDERS be Recensive Haemophilia Cystic fierosis Sickle ceu anaemia By periograe (X Colour blindness Phenylketonuria. TANI Autosomal dominant	lines abuse have studied in traced by pedigree arciysis in a family. There are sine than some to a Autosomal recessive	partiam of inherit ance. pattern of inherit ance. the ac disorders nale progeny
Determined by Alteration / Mutata These disorders (tre transmitted Sqme to offspring on MENDELIAN DISORDERS (Racesine) Haemophilia Cystic fierosis Sickle ceu anaemia Phenylketonuria. Phenylketonuria. TANI TANI TANI TO Offspring on Gormant Racesine Ex. Th Colour blindness Phenylketonuria. TANI	lines abuse have studied in traced by pedigree arciysis in a family. There are sine than some to a Autosomal recessive	partiam of inheritance. If these disorders
Determined by Alteration / Mutata These disorders (tre bransmitted Sqme to Offspring on MENDELIAN DISORDERS be Recensive Haemophilia Cystic fierosis Sickle ceu anaemia By periograe (X Colour blindness Phenylketonuria. TANI Autosomal dominant	lines abuse have studied in traced by pedigree analysis in a family. Temphilia - Linked recessive) fransmission fransmiss	partiam of inhesit ance of thear disorders male progeny
Determined by -> Alteration / Mutato These disorders (tre bransmithed Squine to offspring on Adominant MENDELIAN DISORDERS may Rac exince Haemophilia Cyshic fierosis Sickle cell anaemia By perigree (X Colour blindness Phenylik etonuria. find out TAN Autosomal dominant — Myotonie Dyshophy (1) Colour Blindness — Sex-linked trec usin Males - 8%. Martion in Certain this defer	lines abuse have studied in traced by pedigree analysis in a tarnily. THREA MOTES Autosomal recessive Sickle of due to prefer in either trailing to digriminate	pattern of inherit ance. pattern of inherit ance. If these disorders nale progeny red or green corre of eye
Determined by Alteration Mutato These disorders are bronsmitted Same to offspring on MENDELIAN DISORDERS may Recessive Recessive Gextimized Cyshic fierosis Sickle ceu anaemia By perigree (X Colour blindness arrives one can phenylik etonuria. Phenylik etonuria. Autosomal dominant — Myotonie Dyshiphy (1) Colour Blindness — Sex-linked trecusing	lines abuse have studied in traced by pedigree analysis in a farmily. Temphiliaunlead recessive) Autosomae recessive Bickle due to defeat in either the Failure to discriminate Recessive	partiam of mount ance. The thear disorders nate progeny red or green core
Determined by - Alteration / Mutable These disorders are bronzemithed Same to offspring on MENDELIAN DISORDERS be Recessive Haemophilia Cyshic fishosis Sickle ceu araemia by pengase (X Colous blindness ary year are can Phenylik etonuria. Phenylik etonuria. Autosomal dominant - Myotonie Dyshophy (1) Colour Blindness - Sex-linked recessive Malas - 8%. Malas - 8%. Malas - 8%. Maraton in certain this deference on a chromoseme.	lines abuse have studied in traced by pedigree analysis in a tarnily. THREA MOTES Autosomal recessive Sickle of due to prefer in either trailing to digriminate	pattern of inherit ance. pattern of inherit ance. If these disorders nale progeny red or green corre of eye,



and the second second second second		CHROMOSOMAL DISORDER	
		due to absence or encess or abnormal arrange	aement
and the second second second second		duen	
		1 or more duramesomes	
	*	Aneuploidy -> Gain / Loss of chromosome (s)	
		due Failure a segregation of chrom during cell devision cycle.	oteds
		aumy cen anatom egen.	
	*	Down's Syndrome Turner Syndrome Polyploidy	-
		1 J.	ytokin
		gam of ontra copy Loss of an X-chr. Failure of a chromosome 21 in human females. hearts in 1	
		m numar femajes. heauts in 1 whole set of a	
4.	*	Total no of diromosomes in normal	
		human cell (Often, Seen in Pl	ANTS
		46 (23 pairs)	
		22 pairs 1 pair	
		Autosman	
		TANISHA SACHAN Moludid	
		AID	in an
	*	Goodhan es on a dditional China of change and	
		NCERT THREAD NOTES any indiv	m
		any indiv	vidual
		DOWN'S SYNDROME MONDSOMY OF	1 0
		the presence of additional copy of chrom. 21 chromoso	me
		Trisomy of 21	
		fur desc Langdon down m (1866)	
		ribea by	
		The state of the s	1
		Short Small Furrowed Partially Broad pour Rsychon	
		head mount from	
		palm crease retar	ded.
	10.14		

